



Generate Collection

L2: Entry 1 of 3

File: USPT

Jun 6, 2000

DOCUMENT-IDENTIFIER: US 6072050 A  
TITLE: Synthetic promoters

DEPV:

SEQ ID NO: 18 set forth the UCP4 promoter sequence (4 copies of Ubi1  
UAR operably with the core promoter).

## Generate Collection

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6072050 A

L2: Entry 1 of 3

File: USPT

Jun 6, 2000

US-PAT-NO: 6072050

DOCUMENT-IDENTIFIER: US 6072050 A

TITLE: Synthetic promoters

DATE-ISSUED: June 6, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowen; Benjamin A.	Des Moines	IA	N/A	N/A
Bruce; Wesley B.	Urbandale	IA	N/A	N/A
Lu; Guihua	Urbandale	IA	N/A	N/A
Sims; Lynne E.	Polk	IA	N/A	N/A
Tagliani; Laura A.	Akeny	IA	N/A	N/A

US-CL-CURRENT: 536/24.1; 435/320.1, 435/419, 435/468, 536/23.6,  
536/24.2, 800/278, 800/295, 800/298

## ABSTRACT:

Synthetic elements for enhancing expression of genes in plant cells are disclosed. These include a promoter with a "TATA to start" sequence containing 64% or greater GC content and an synthetic upstream element incorporating several OCS binding motifs and novel flanking sequences. Upstream activating regions (UARs) are also disclosed that can further increase the constitutive transcriptional activity when they are operably linked to said promoter and/or the synthetic upstream element. In particular, the nucleotide sequence of the UAR of the maize Ubi-1 gene is provided and its use in expression cassettes and vectors containing these promoter elements. Cells and plants transformed with these vectors are further provided. These include a transgenic sunflower expressing an exogenous oxalate oxidase gene at a high level under the transcriptional control of a recombinant promoter having at least one upstream activating region of the 35S CaMV promoter.

15 Claims, 13 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

☐ 2. Document ID: US 4499575 A

L2: Entry 2 of 3

File: USPT

Feb 12, 1985

US-PAT-NO: 4499575

DOCUMENT-IDENTIFIER: US 4499575 A

TITLE: Group of terminal units for a digital exchange

DATE-ISSUED: February 12, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Dupuis; Bernard	Montigny Le Bretonneux	N/A	N/A		FRX
Behague; Francois	Gif Sur Yvette	N/A	N/A		FRX

US-CL-CURRENT: 370/369; 370/387

ABSTRACT:

A group of terminal units (GUT) for a digital exchange having distributed control residing in control means comprising microprocessor control units (UC) which are interconnected by means of the exchanges' time switching network (RXA to RXD). The control units UC are connected to each other by a duplicated point-to-point link (RIT1, RIT2) and to the switching network by a coupler (AM) which is provided with a send/receive circuit that operates using a semaphore procedure. Each of the terminal units (UT) includes a control microprocessor (mp) connected to the switching network by a send-receive circuit (ER) using a semaphore, or question and answer, procedure. The terminal units (UT) are controlled by the control units (UC) by interchanging messages using a common procedure for all the terminal units. These messages are interchanged over channels in the links that make up the switching network of the exchange.

7 Claims, 13 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Font	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
------	-------	----------	------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 3. Document ID: US 4493076 A

L2: Entry 3 of 3

File: USPT

Jan 8, 1985

US-PAT-NO: 4493076  
DOCUMENT-IDENTIFIER: US 4493076 A

TITLE: Security system for a distributed control exchange

DATE-ISSUED: January 8, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Khimeche; Abdel-Cader	Chatenay Malabry	N/A	N/A		FRX
Kemler; Marc	Velizy-Villacoublay	N/A	N/A		FRX

US-CL-CURRENT: 714/11; 379/279, 379/284, 379/290

ABSTRACT:

A security system for an exchange having distributed control. Exchange control is distributed among a plurality of microprocessors and in microprocessor terminal units connected to a time-division switching network. The security system is organized on three levels: (I) a first level comprising security means in each microprocessor for detecting faults and for taking decisions concerning current processing; (II) a second level comprising means for managing said security blocks and for switching over from one block to another and re-configuring the links affected by the switchover; and (III) a third level comprising means for managing the microprocessors of the exchange control means and the two point-to-point links, said third level means comprising two identical peripheral control units controlling respective mass memories each containing a copy of the software needed to run the exchange.

8 Claims, 9 Drawing figures Exemplary Claim Number: 1  
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	-----------	-------

Generate Collection

Terms	Documents
ucp4	3

Display

10

Documents, starting with Document:

3

Display Format:

REV

Change Format

[Help](#)
[Logout](#)
[Interrupt](#)
[Main Menu](#)
[Search Form](#)
[Posting Counts](#)
[Show S Numbers](#)
[Edit S Numbers](#)
[Preferences](#)

## Search Results -

Terms	Documents
'uncoupling protein 4'	0

Database: US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Refine Search:

'uncoupling protein 4'

[Clear](#)

## Search History

Today's Date: 5/3/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	'uncoupling protein 4'	0	<a href="#">L3</a>
USPT	ucp4	3	<a href="#">L2</a>
USPT	(ADAMS-SEAN-M   PAN-JAMES)!	5	<a href="#">L1</a>

## Generate Collection

## Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6072050 A

L1: Entry 1 of 4

File: USPT

Jun 6, 2000

US-PAT-NO: 6072050

DOCUMENT-IDENTIFIER: US 6072050 A

TITLE: Synthetic promoters

DATE-ISSUED: June 6, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowen; Benjamin A.	Des Moines	IA	N/A	N/A
Bruce; Wesley B.	Urbandale	IA	N/A	N/A
Lu; Guihua	Urbandale	IA	N/A	N/A
Sims; Lynne E.	Polk	IA	N/A	N/A
Tagliani; Laura A.	Akeny	IA	N/A	N/A

US-CL-CURRENT: 536/24.1; 435/320.1, 435/419, 435/468, 536/23.6,  
536/24.2, 800/278, 800/295, 800/298

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 2. Document ID: US 4499575 A

L1: Entry 2 of 4

File: USPT

Feb 12, 1985

US-PAT-NO: 4499575

DOCUMENT-IDENTIFIER: US 4499575 A

TITLE: Group of terminal units for a digital exchange

DATE-ISSUED: February 12, 1985

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dupuis; Bernard	Montigny Le Bretonneux	N/A	N/A	FRX
Behague; Francois	Gif Sur Yvette	N/A	N/A	FRX

US-CL-CURRENT: 370/369; 370/387

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 3. Document ID: US 4493076 A

L1: Entry 3 of 4

File: USPT

Jan 8, 1985

US-PAT-NO: 4493076

DOCUMENT-IDENTIFIER: US 4493076 A

TITLE: Security system for a distributed control exchange

DATE-ISSUED: January 8, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Khimeche; Abdel-Cader	Chatenay Malabry	N/A	N/A		FRX
Kemler; Marc	Velizy-Villacoublay	N/A	N/A		FRX

US-CL-CURRENT: 714/11; 379/279, 379/284, 379/290

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

☐ 4. Document ID: WO 200017353 A1, AU 9960413 A

L1: Entry 4 of 4

File: DWPI

Mar 30, 2000

DERWENT-ACC-NO: 2000-292842

DERWENT-WEEK: 200037

COPYRIGHT 2001 DERWENT INFORMATION LTD

TITLE: New nucleic acid encoding human uncoupled protein-4, useful e.g for identifying metabolic regulators for treatment of obesity

INVENTOR: ADAMS, S; PAN, J ; ZHONG, A

PRIORITY-DATA: 1999US-0129674 (April 16, 1999), 1998US-0101279 (September 22, 1998), 1998US-0114223 (December 30, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200017353 A1	March 30, 2000	E	078	C12N015/12
AU 9960413 A	April 10, 2000	N/A	000	C12N015/12

INT-CL (IPC): C07K 14/47; C12N 15/12; C12Q 1/02; C12Q 1/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	-----------	-------

Generate Collection

Terms	Documents
ucp4	4

Display

10

Documents, starting with Document:

1

**Display Format:**



[Help](#)
[Logout](#)
[Interrupt](#)
[Main Menu](#)
[Search Form](#)
[Posting Counts](#)
[Show S Numbers](#)
[Edit S Numbers](#)
[Preferences](#)

## Search Results -

Terms	Documents
'uncoupling protein 4'	2

Database: 
 US Patents Full-Text Database  
 US Pre-Grant Publication Full-Text Database  
 JPO Abstracts Database  
 EPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Refine Search:

## Search History

Today's Date: 5/3/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,JPAB,EPAB,DWPI	'uncoupling protein 4'	2	<u>L2</u>
USPT,PGPB,JPAB,EPAB,DWPI	ucp4	4	<u>L1</u>